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Illinois  
Environmental  
Protection Agency

Division of Public Water Supplies  
2200 Churchill Road  
Springfield, Illinois 62706

## Groundwater Quality Protection Program

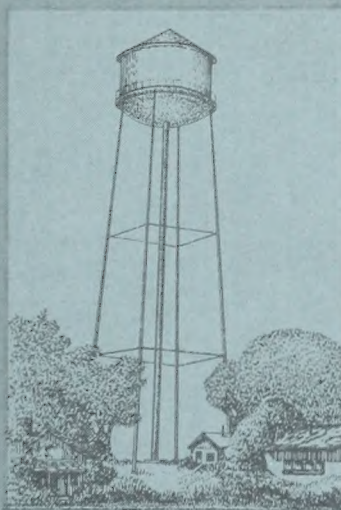
S.E. Joliet Sanitary District  
FACILITY NUMBER 1977490  
WELL SITE SURVEY REPORT

Division of Public Water Supplies

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IEPA/PWS/ 92-196

GROUNDWATER QUALITY PROTECTION PROGRAM:

S.E. Joliet Sanitary District  
FACILITY NUMBER 1977490  
WELL SITE SURVEY REPORT

Presented by:

Division of Public Water Supplies

Published by:

Illinois Environmental Protection Agency


Springfield, Illinois

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  - D. Detailed Sampling/Monitoring Results





## INTRODUCTION

This report has been prepared by the Illinois Environmental Protection Agency (Agency) pursuant to Section 17.1 of the Illinois Environmental Protection Act (Act). The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to the groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

## FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

S.E. Joliet Sanitary District obtains its water from one bedrock well. This well provides an average of 218,000 gallons per day to 533 services. See Table I for a description of the well. The surficial geologic susceptibility rating for the well is C1. The bedrock aquifer is overlain by sediments of variable permeability. Permeability is a measure of the ability of a soil or sediment to transmit fluids. A complete description and geologic profile is found in the Facility Wells Report (Appendix C).

TABLE 1

Minimum Setback (ft.)	Maximum Setback (ft.)	Status	Capacity (gpm) (MGD)	Specific Capacity (gpm/ft.)	Treatment	Aquifer	Well Depth (ft.)	Well Logs Avail.
Well 1 (20396)	400	No	A	325 0.468	Chl,Fl, Polyphos	Shallow Bedrock	248	*

A-Active

\*-Well logs not available at this time

## GROUNDWATER SAMPLING/MONITORING HISTORY

S.E. Joliet Sanitary District Well #1 was sampled on June 26, 1985 as part of a Statewide Groundwater Monitoring Program. The samples were analyzed for inorganic chemicals (IOC) and volatile organic/aromatic compounds (VOC/VOA). VOC/VOA analyses did not detect quantifiable levels of any organic compounds. IOC analyses indicate that parameters are consistent with other shallow bedrock aquifers in Illinois (Appendix D).



## SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B), that relate information about potential sources, routes and possible problem sites to your water supply well(s). The location of potential sources, routes, possible problem sites, water supply wells, minimum setback zones, and 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,000 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized for agricultural production). The Agency five-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

### Survey Results and Findings:

The S.E. Joliet Sanitary District well site survey was conducted on February 12, 1992 by Wade Boring from the Agency's Springfield Office. The following describes the results and findings for the S.E. Joliet Sanitary District public water well.

#### S.E. Joliet Sanitary District Well #1 (IEPA #20396)

The survey area is urban. The area is predominantly residential with some commercial. One potential secondary source of contamination is located within the minimum setback zone of Well #1; Checker Oil (map code 1) 250 feet NW.

### SUMMARY

The well site survey conducted indicates that there is one potential source/site that could pose a hazard to groundwater utilized by the S.E. Joliet Sanitary District public water well.

- . One site with below ground fuel storage; Checker Oil.

The Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the control would then be assumed by the local officials through adoption of a maximum setback zone ordinance.



### RECOMMENDATIONS

The Agency strongly urges S.E. Joliet Sanitary District to consider establishing maximum setback zones for its wells. The Agency has prepared a "Maximum Setback Zone Workbook" which provides detailed case studies of how to establish a maximum setback zone. Technical assistance is available from the Agency and the Illinois State Water Survey.







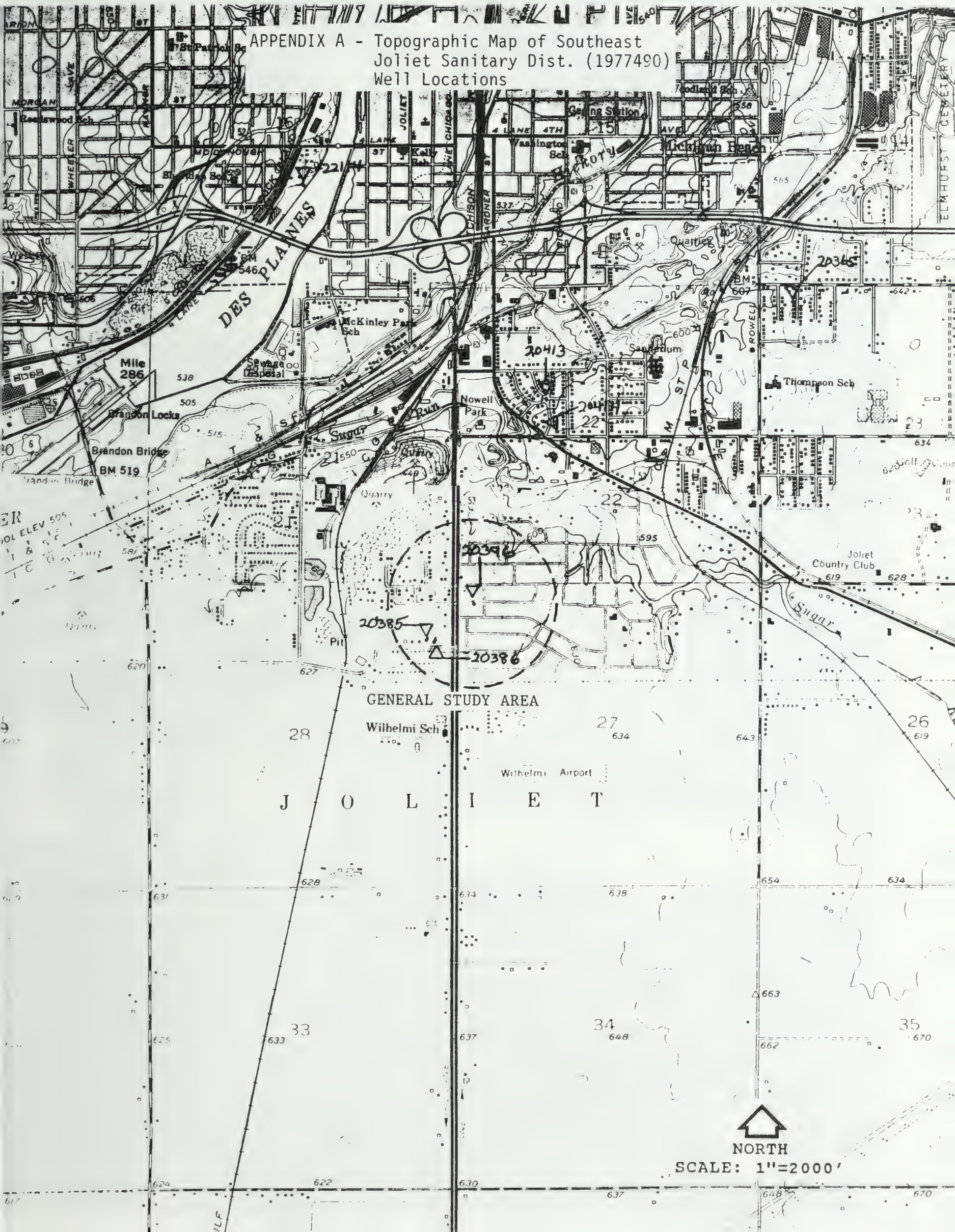
## TECHNICAL APPENDICES







APPENDIX A - Topographic Map of Southeast  
Joliet Sanitary Dist. (1977490)  
Well Locations







QU

E. JOLIET SANITARY DISTRICT    MODERN MHP  
1977490                                      1975265

1"=400'





QUARRY

53

ZARLEY RD

ZURICH RD

S.E. JOLIET SANITARY DISTRICT    MODERN MHP  
1977490                                    1975265

1"=400'

20385 20386

1975265

20396

1977490





APENDIX B1 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC  
PROFILE-S.E. Joliet Sanitary District WELL #1 (IEPA #20396)

SURVEYOR: W. Boring  
SURVEY DATE: 2/12/92  
ADDRESS: Charles Cain  
1607 Moore Ave  
PO Box 3309  
Joliet, IL 60434

AGENCY WELL NUMBER: 20396  
WELL NAME & DESCRIPTION: Well #1  
TAP: 01  
FACILITY NO. & NAME: 1977490  
FACILITY PHONE CONTACT:  
LOCATION:  
TWP, RNG, SECTION, 10 ACRE PLOT: 35N,10E,27,8H  
DISTANCE FROM CORNER SECTION: 319S,306E  
QUAD SHEET CODE & NAME: 58A-Elwood  
MINIMUM SETBACK: 400 ft.  
MAXIMUM SETBACK:  
GEOLOGIC SUSCEPTIBILITY RATING: C1-bedrock overlain by  
variable permeability  
sediments

AGE OF WELL: 1960  
WELL DEPTH: 248 ft.  
DEPTH OF CASING: 56 ft.  
AQUIFER CODE: 5656-Shallow Bedrock  
MULTIPLE AQUIFER (Y, N): N  
SUMMARY DESCRIPTION OF 1,000 FT. RADIUS AREA:  
  
The survey area is urban.  
The area is predominantly  
residential with some  
commercial.

INTERVIEW(S):  
NAME-AFFILIATION-ADDRESS-TELEPHONE NO.

APPENDIX B1: INVENTORY AND SYNOPSIS OF UNITS - S.E. Joliet  
Sanitary District WELL #1 (IEPA #20396)

<u>CLASSIFICATION KEY</u>	
<u>MINIMUM ZONE</u>	<u>OUTSIDE MINIMUM ZONE</u>
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

---

WELL NO. - MAP CODE - CLASSIFICATION: 20396-01-PS  
NAME & ADDRESS OF UNIT OWNER: Checker Oil, 1600 S. Chicago,  
Joliet, IL 60433 312/355-0600  
DESCRIPTION AND COMMENTS: service station with greater than 500  
gallons below fuel storage, ISFM #2-014563  
PRE OR POST (Y, N): Y  
DISTANCE AND DIRECTION: 250 ft. NW

---



## APPENDIX C





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
FACILITY WELLS REPORT

REPORT: PW000023  
MODULE: PW000007

PAGE: 10  
DATE: 01/20/93

FACILITY: 1977490 SOUTHEAST JOLIET SNDS

OWNER

OFFICIAL CUSTODIAN

CHARLES RAIN

1607 MOORE AVE.

PO BOX 3329

JOLIET

IL 60434

WELL: 20356 W1 NEXT TO TOWER E SIDE OF RT 53  
LATITUDE: N41 29 36.0

LONGITUDE: W088 04 45.0  
STATUS: ACTIVE

TWP: 35N RNG: 10E SEC: 27 PLOT: 8H  
DRILLED DEPTH(FT): 248

SUSCEPTIBILITY - LAND BURIAL: C1 SUSCEPTIBILITY - LAND SPREADING: --- MINIMUM SETBACK(FT): 0400 ---

ALTITUDE (FT):	0.00	ALTITUDE METHOD CODE:	- UNKNOWN				
INTERVAL 1 - TYPE:	- N/A	SCREEN MATL:	- NOT APPLICABLE	DEPTH TO TOP (FT):	0.00	DEPTH TO BOT (FT):	0.00
INTERVAL 2 - TYPE:	- N/A	SCREEN MATL:	- NOT APPLICABLE	DEPTH TO TOP (FT):	0.00	DEPTH TO BOT (FT):	0.00
INTERVAL 2 - TYPE:	- N/A	SCREEN MATL:	- NOT APPLICABLE	DEPTH TO TOP (FT):	0.00	DEPTH TO BOT (FT):	0.00

AQUIFERS: SILURIAN DOLOMITE  
SILURIAN SYSTEM

SUSCEPTIBILITY CODES

LAND BURIAL: C1 = PERMEABLE BEDROCK WITHIN 20 TO 50 FT OF SURFACE. OVERLAIN BY TILL OR OTHER FINE-GRAINED MATERIAL.





## APPENDIX D





ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 74  
DATE: 01/20/93

REPORT: PWSR2092  
MODULE: PWSM2024

FACILITY: 1477490 SOUTHEAST JOLIET SNDSY STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G

TAP: 01 WELL 1 NEAR ELEVATED TANK STATUS: A

RAW SRCE: 20395 W1 NEXT TO TOWER E SIDE OF RT 53 STATUS: A

SAMPLE NO: B1107000 LOCATION: SOUTHEAST JOLIET SNDSY COLL DATE: 08/02/91 DELIVERED BY: MAIL  
SMPL TYPE: RAW COLLECTOR: STANLEY MCCLAIN LAB RCVD: 08/05/91 RECEIVED BY: PMD  
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: 10/11/91 LAB SUPERVISOR: RPF  
SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 08/91 FUND CODE: PM30

ANALYSIS		SLT		STRET		STANDARDS		TRIGGER	
ID	NO	NO	NO	DESCRIPTION	UNITS	RESULT	DRINK WTR	RAW WTR	LEVEL
100T000	001	00403	PH	LABORATORY UNITS	UNITS	7.400			
101T000	001	00095	CONDUCTIVITY(CEC)	LABCUMHOS/CM @ 25 C	UM/CM	1004.000			
102T000	001	70300	RESIDUE, TOTAL	FILTERABLE 3180 C, MG/L	MG/L	600.000			
103T000	001	00410	ALKALINITY, TOTAL	MG/L AS CAC03	MG/L	378.000			
105T000	001	00900	HARDNESS, EDTA	MG/L AS CAC03	MG/L	511.000			
107T000	001	00951	FLUORIDE, TOTAL	MG/L AS F	MG/L	0.240	4.000		
108T000	001	00940	CHLORIDE, TOTAL	MG/L AS CL	MG/L	39.000			
109T000	001	00945	SULFATE, TOTAL	MG/L AS S04	MG/L	177.000			
110T000	001	00630	NITRATE & NITRITE	TOTAL MG/L AS N	MG/L	0.020	10.000		
111T000	001	00610	NITROGEN, AMMONIA	TOTAL MG/L AS N	MG/L	0.300			
114T000	001	00956	SILICA, TOTAL	MG/L AS S102	MG/L	15.000			
116T000	001	00720	CYANIDE, TOTAL	MG/L AS CN	MG/L	0.005 <	0.200		
144T000	001	01002	ARSENIC, TOTAL	RECOVERABLE UG/L AS AS	UG/L	1.600	50.000		
151T100	001	01051	LEAD, TOTAL	RECOVERABLE UG/L AS PB	UG/L	5.000 <	50.000		
153T000	001	71900	MERCURY, TOTAL	UG/L AS HG	UG/L	0.050 <	2.000		
155T000	001	01147	SELENIUM, TOTAL	RECOVERABLE UG/L AS SE	UG/L	1.000 <	10.000		
177T100	001	00916	CALCIUM, TOTAL	RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	120.000			
177T100	002	00927	MAGNESIUM, TOTAL	RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	59.000			
177T100	003	00929	SODIUM, TOTAL	RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	32.000			
177T100	004	00927	POTASSIUM, TOTAL	RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	3.800			
177T100	005	01105	ALUMINUM, TOTAL	RECOVERABLE UG/L AS AL ANAL BY ICP	UG/L	150.000 <			
177T100	006	01007	BARIUM, TOTAL	RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	33.000	1000.000		
177T100	007	01022	BORON, TOTAL	RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	220.000			
177T100	008	01012	GERYLLIUM, TOTAL	RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	1.000 <			
177T100	009	01027	CADMIUM, TOTAL	RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	5.000 <	10.000		
177T100	010	01034	CHROMIUM, TOTAL	RECOVERABLE UG/L AS CR ANAL BY ICB	UG/L	5.000 <	50.000		
177T100	011	01042	COPPER, TOTAL	RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	12.000	5000.000		
177T100	012	01037	COBALT, TOTAL	RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000 <			
177T100	013	01045	IRON, TOTAL	RECOVERABLE, UG/L AS FE ANAL BY ICP	UG/L	439.000	1000.000		
177T100	014	01055	MANGANESE, TOTAL	RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	15.000	150.000		
177T100	015	01067	NICKEL, TOTAL	RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	15.000 <			
177T100	016	01077	SILVER, TOTAL	RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	5.000 <	50.000		
177T100	017	01082	STRONTIUM, TOTAL	RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	741.000			
177T100	018	01087	VANADIUM, TOTAL	RECOVERABLE UG/L AS V ANAL BY ICP	UG/L	5.000 <			
177T100	019	01092	ZINC, TOTAL	RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000 <	5000.000		
177T100	020	82394	HARDNESS, CALC	- MG/L	MG/L	544.000			

SAMPLE NO: 2002500 LOCATION: WELL COLL DATE: 06/26/85 DELIVERED BY:  
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:  
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 75  
DATE: 01/20/93

REPORT: PWSR0040  
MODULE: PWSM0026

FACILITY: 1077490 SOUTHERN

JCLIST SMOST

\*\*\* CONTINUED \*\*\*

SMPLE PRG: I-3M INCP

BSRVATNS:

SMPLE PERIOD: 06/85

FUND CODE:

ANALYSIS ID	RSLT NO	NO	DESCRIPTION	UNITS	RESULT	-----STANDARDS-----			TRIGGER LEVEL
						DRINK WTR	RAW WTR		
0000001	001	00610	POGEM, AMMONIA TOTAL MG/L AS N		0.300				
0000001	002	00630	RATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000			
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010 <				
0000001	004	00720	PHOSPHATE, TOTAL MG/L AS CH		0.010 <	0.200			
0000001	005	00916	ALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		112.000				
0000001	006	00927	MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		58.000				
0000001	007	00929	COBIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		26.000				
0000001	008	00937	POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		3.800				
0000001	009	00940	FLORIDE, TOTAL MG/L AS CL		28.000				
0000001	010	00945	SULFATE, TOTAL MG/L AS SO4		174.000				
0000001	011	00951	LUORICE, TOTAL MG/L AS F		0.200	4.000			
0000001	012	00955	SILICA, TOTAL MG/L AS SIO2		13.000				
0000001	013	01002	ARSENIC, TOTAL RECOVERABLE UG/L AS AS		2.000	50.000			
0000001	014	01007	BARIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		37.000	1000.000			
0000001	015	01012	BERYLLIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <				
0000001	016	01022	BORON, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		206.000				
0000001	017	01027	CADMIUM, TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000			
0000001	018	01034	CHROMIUM, TOTAL RECOVERABLE UG/L AS CR ANAL BY ICB		5.000 <	50.000			
0000001	019	01037	COBALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <				
0000001	020	01042	COPPER, TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000 <	5000.000			
0000001	021	01045	IRON, TOTAL RECOVERABLE, UG/L AS FE ANAL BY ICP		457.000	1000.000			
0000001	022	01051	LEAD, TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000			
0000001	023	01055	MANGANESE, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		17.000	150.000			
0000001	024	01067	NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000 <				
0000001	025	01077	SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3.000 <	50.000			
0000001	026	01082	STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		759.000				
0000001	027	01087	VANADIUM, TOTAL RECOVERABLE UG/L AS V ANAL BY ICP		5.000 <				
0000001	028	01092	ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50.000 <	5000.000			
0000001	029	01105	ALUMINUM, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP		50.000 <				
0000001	030	01147	SELENIUM, TOTAL RECOVERABLE UG/L AS SE		1.000 <	10.000			
0000001	031	02730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000 <				
0000001	032	70300	RESIDUE, TOTAL FILTERABLE @180 C, MG/L		965.000				
0000001	033	71900	MERCURY, TOTAL UG/L AS HG		0.010 <	2.000			
0000001	034	00010	WATER TEMPERATURE DEG C		13.500				
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN		350.000				
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		78.000-				
0000001	037	00095	CONDUCTIVITY(CE)-LAB(CUMHOS/CM @ 25 C		995.000				
0000001	038	00400	PH PH UNITS		6.800				
0000001	039	00410	ALKALINITY, TOTAL MG/L AS CACO3		366.000				
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		150.000				
0000001	041	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE		55.000				
0000001	042	90410			369.000				

SAMPLE NO: 1034819  
SMPLE TYPE: RAW

LOCATION: WELL #1  
COLLECTOR: MELVIN SPLETTER

COLL DATE: 02/08/82  
LAB RCVD: 03/10/82  
DELIVERED BY:  
RECEIVED BY:



FACILITY: 1077490 SOUTHEAST JOLIET SHDST

\*\*\* CONTINUED \*\*\*

SMPLE PURP: 1-ROUTINE COMMENTS:  
SMPLE PRG: 1-GW INORG OBSRVATNS:

LAB COMPL: LAB SUPERVISOR:  
SMPLE PERIOD: 02/82 FUND CODE:

ANALYSIS ID	RSLT NO	NO	DESCRIPTION	UNITS	RESULT	STANDARDS			TRIGGER LEVEL
						DRINK WTR	RAW WTR		
00035			CONDUCTIVITY(CE)-LAB(CUMHOS/CM @ 25 C		1000.000				
00403			PH LABORATORY UNITS		7.100				
00410			ALKALINITY,TOTAL MG/L AS CAC03		366.000				
00610			NITROGEN,AMMONIA TOTAL MG/L AS N		0.190				
00630			NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000			
00720			CYANIDE,TOTAL MG/L AS CN		0.005 <	0.200			
00900			HARDNESS,EDTA MG/L AS CAC03		508.000				
00915			CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		118.000				
00927			MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		58.400				
00929			SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		25.000				
00937			POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		5.100				
00940			CHLORIDE,TOTAL MG/L AS CL		21.000				
00945			SULFATE,TOTAL MG/L AS S04		174.000				
00951			FLUORIDE,TOTAL MG/L AS F		0.240	4.000			
00956			SILICA,TOTAL MG/L AS S102		14.000				
01002			ARSENIC,TOTAL RECOVERABLE UG/L AS AS		1.000	50.000			
01007			BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		50.000	1000.000			
01012			BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <				
01022			BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		210.000				
01027			CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000			
01034			CHROMIUM,TOTAL RECOVERABLE UG/L AS CR ANAL BY ICB		6.000 <	50.000			
01037			COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <				
01042			COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		4.000	5000.000			
01045			IRON,TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP		480.000	1000.000			
01051			LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000			
01055			MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		18.000	150.000			
01067			NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		3.000 <				
01077			SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000 <	50.000			
01082			STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		780.000				
01087			VANADIUM,TOTAL RECOVERABLE UG/L AS V ANAL BY ICP		4.000 <				
01092			ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		2.000 <	5000.000			
01147			SELENIUM,TOTAL RECOVERABLE UG/L AS SE		1.000 <	10.000			
70300			RESIDUE,TOTAL FILTERABLE @180 C,MG/L		620.000				
70304			TOTAL DISSOLVED SOLIDS MG/L BY EC		600.000				
71900			MERCURY,TOTAL UG/L AS HG		0.050 <	2.000			

SAMPLE NO: 086695800 LOCATION: JOLIET/WELLHOUSE 1  
SMPLE TYPE: RAW COLLECTOR: STANLEY MCCLAIN  
SMPLE PURP: 3-VARIANCE COMMENTS: VOC  
SMPLE PRG: V-VOC OBSRVATNS: 2 VOC

COLL DATE: 08/18/88 DELIVERED BY: MAIL  
LAB RCVD: 08/22/88 RECEIVED BY: MSB  
LAB COMPL: 08/31/89 LAB SUPERVISOR: JTH  
SMPLE PERIOD: 08/88 FUND CODE: PW30



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 77  
DATE: 01/20/93

REPORT: PWSM0000  
MOBILE: PWSM0000

FACILITY: 1977400 SOUTH EAST JOLIET SILOST

\*\*\* CONTINUED \*\*\*

ANALYSIS ID	RESULT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS			TRIGGER LEVEL
						DRINK WTR	RAW WTR		
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000	<			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L GC/MS	UG/L	1.000	<			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000	<			
431WV00	004	32104	BROMOFORM UG/L GC/MS	UG/L	1.000	<			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000	<	5.000		
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	7.000		
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000	<			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	100.000		
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000	<	5.000		
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	200.000		
431WV00	011	32102	CARBON TETRACHLORIDE UG/L GC/MS	UG/L	1.000	<	5.000		
431WV00	012	39150	TRICHLOROETHYLENE UG/L	UG/L	1.000	<	5.000		
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	5.000		
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000	<	100.000		
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<			
431WV00	016	78124	BENZENE UG/L	UG/L	1.000	<	5.000		
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000	<	1000.000		
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000	<	700.000		
431WV00	019	81551	XYLENE UG/L	UG/L	1.000	<	10000.000		

SAMPLE NO: 08320000 LOCATION: BLANK W/63199 COLLECTOR: STANLEY MCCLAIN DELIVERED BY: MAIL  
SMPL TYPE: RAW COMMENTS: VOCS LAB RCVD: 03/08/89 RECEIVED BY: D V  
SMPL PURP: 9-VARIANCE OBSRVATNS: 2 BLANKS LAB COMPL: 04/07/88 LAB SUPERVISOR: JTH  
SMPL PROG: V-VOC SMPL PERIOD: 03/98 FUND CODE: PW30

ANALYSIS ID	RESULT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS			TRIGGER LEVEL
						DRINK WTR	RAW WTR		
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000	<			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L GC/MS	UG/L	1.000	<			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000	<			
431WV00	004	32104	BROMOFORM UG/L GC/MS	UG/L	1.000	<			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	2.000		5.000		
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	7.000		
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000	<			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	100.000		
431WV00	009	34521	1,2-DICHLOROETHANE UG/L	UG/L	1.000	<	5.000		
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000	<	200.000		
431WV00	011	32102	CARBON TETRACHLORIDE UG/L GC/MS	UG/L	1.000	<	5.000		
431WV00	012	39150	TRICHLOROETHYLENE UG/L	UG/L	1.000	<	5.000		
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000	<	5.000		
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000	<	100.000		
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000	<			
431WV00	016	78124	BENZENE UG/L	UG/L	1.000	<	5.000		
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000	<	1000.000		
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000	<	700.000		
431WV00	019	81551	XYLENE UG/L	UG/L	1.000	<	10000.000		



REGULATORY: ENVIRONMENTAL PROTECTION AGENCY  
MODULATORY: ENVIRONMENTAL PROTECTION AGENCY

FACILITY: 1977400 SOUTH:AST JOLIET SNDST

\*\*\* CONTINUED \*\*\*

SAMPLE NO:	0963199	LOCATION:	WELL 1
SMPL TYPE:	RAW	COLLECTOR:	MCCLAIN
SMPL PURP:	9-VARIANCE	COMMENTS:	
SMPL PROG:	V-VDC	OBSRVATNS:	

LOCATION: WELL 1 NEXT TO TOWER  
COLLECTOR: MCCLAIN  
COMMENTS:  
OBSRVATNS:

COLL DATE: 03/04/88  
LAB RCVD: 03/08/88  
LAB COMPL:  
SMPL PERIOD: 03/88

DELIVERED BY:  
RECEIVED BY:  
8 SUPERVISOR:  
FUND CODE:

ANALYSIS	RSLT	-----STORET-----	NO	DESCRIPTION
ID	NO			

UNITS

## RESULT

-----STAIN  
DRINK WATER

OS-----  
RAW WTR

TRIGGER	LEVEL
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
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98	98
99	99
100	100

32101	BROMOCHLOROMETHANE	UG/L	CG/MS
32102	CARBON TETRACHLORIDE	UG/L	CG/MS
32104	BROMOFORM	UG/L	CG/MS
32105	DIBROMOCHLOROMETHANE	UG/L	GC/MS
32106	CHLOROFORM	UG/L	GC/MS
34301	CHLOROBENZENE	UG/L	
34423	METHYLENE CHLORIDE	UG/L	
34475	TETRACHLOROETHYLENE	UG/L	GC/MS
34496	1,1-DICHLOROETHANE	UG/L	GC/MS
34501	1,1-DICHLOROETHYLENE	UG/L	GC/MS
34506	1,1,1-TRICHLOROETHANE	UG/L	GC/MS
34531	1,2-DICHLOROETHANE	UG/L	
34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	GC/MS
34716	DICHLOROBENZENE	UG/L	
39180	TRICHLOROETHYLENE	UG/L	
78113	ETHYLENIZENE	UG/L	
78124	BENZENE	UG/L	
78131	TOLUENE	UG/L	
81531	XYLENE	UG/L	

1.000 <	
1.000 <	5.000
1.300 <	
1.000 <	
1.300 <	
1.000 <	100.000
1.000 <	5.000
1.000 <	5.000
1.000 <	
1.000 <	7.000
1.000 <	200.000
1.300 <	5.000
1.000 <	100.000
1.000 <	
1.000 <	5.000
1.000 <	700.000
1.000 <	5.000
1.000 <	1000.000
1.000 <	10000.000

SAMPLE NO:	076072900	LOCATION:	SOUTH
SMPL TYPE:	RAW	COLLECTOR:	S MCC
SMPL PUDD:	9-VARIANCE	COMMENTS:	VOC'S
SMPL PROG:	V-VOC	OBSRVATNS:	2 VOC

LOCATION: SOUTHEAST JOLIET SNDST/1607 MOORE/WELL 1

COLL DATE: 11/07/87	DELIVERED BY: MAIL
LAB RCVD: 11/10/87	RECEIVED BY: O V
LAB COMPL: 12/15/87	LAB SUPERVISOR: JTH
SAMPLE PERIOD: 11/87	FUND CODE: PW30

ANALYSIS		PSLT	-----STORET-----	
ID	NO	NO	DESCRIPTION	

UNITS

## RESULT

-----STA  
DRINK WTR

OS-----  
RAW WTR

TRIGGER	LEVEL
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
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99	99
100	100

431A 00	001	32106	CHLOROFORM	UG/L	GC/MS
431A 00	002	32101	BROMODICHLOROMETHANE	UG/L	GC/MS
431A 00	003	32105	DIBROMOCHLOROMETHANE	UG/L	GC/MS
431A 00	004	32104	BROMOFORM	UG/L	GC/MS
431A 00	005	34423	METHYLENE CHLORIDE	UG/L	
431A 00	006	34501	1,1-DICHLOROETHYLENE	UG/L	GC/MS
431A 00	007	34496	1,1-DICHLOROETHANE	UG/L	GC/MS
431A 00	008	34546	TRANS-1,2-DICHLOROETHYLENE	UG/L	GC/MS
431A 00	009	77279	1,2-DICHLOROETHANE	UG/L	
431A 00	010	34506	1,1,1-TRICHLOROETHANE	UG/L	GC/MS
431A 00	011	32102	CARBON TETRACHLORIDE	UG/L	GC/MS
431A 00	012	39180	TRICHLOROETHYLENE	UG/L	
431A 00	013	34475	TETRACHLOROETHYLENE	UG/L	GC/MS
431A 00	014	34201	CHLOROBENZENE	UG/L	

1.000	<
1.000	<
1.500	<
1.000	<
1.000	<
1.000	<
1.000	<
1.000	<
100.000	<
5.000	<
200.000	<
5.000	<
5.000	<
5.000	<
100.000	<



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF PUBLIC WATER SUPPLIES  
SELECTED SAMPLE EXPANDED REPORT

PAGE: 79  
DATE: 01/20/93

REPORT: PWSWPC93  
MODULE: PWSW0036

FACILITY: 1977490 SOUTHEAST JOLIET SNOST

\*\*\* CONTINUED \*\*\*

431A 00 015 34716 DICHLOROBENZENE UG/L  
431A 00 016 78124 BENZENE UG/L  
431A 00 017 78131 TOLUENE UG/L  
431A 00 018 78113 ETHYLBENZENE UG/L  
431A 00 019 81551 XYLENE UG/L

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1.000 <  
1.000 <  
1.000 <  
1.000 <

5.000  
1000.000  
700.000  
10000.000

SAMPLE NO: 2002799 LOCATION: WELL  
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR  
SMPL PURP: S-SPEC/OTHR COMMENTS:  
SMPL PRDS: V-VOC OBSRVATNS:

COLL DATE: 06/26/85 DELIVERED BY:  
LAB RCVD: 00/00/00 RECEIVED BY:  
LAB COMPL: 00/00/00 LAB SUPERVISOR:  
SMPL PERIOD: 06/85 FUND CODE:

ANALYSIS ID	RSLT NO	NO	DESC. ACTION	UNITS	RESULT	STANDARDS			TRIGGER LEVEL
						DRINK WTR	RAW WTR		
0000001	001	32101	BROMODICHLOROMETHANE UG/L GC/MS		1.000 <				
0000001	002	32102	CARBON TETRACHLORIDE UG/L GC/MS		1.000 <	5.000			
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000			
0000001	004	32104	BROMOFORM UG/L GC/MS		1.000 <				
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <				
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <				
0000001	007	34010	TOLUENE UG/L		1.000 <	1000.000			
0000001	008	34030	BENZENE UG/L		1.000 <	5.000			
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <	100.000			
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <	700.000			
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <	5.000			
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <	5.000			
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <				
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <	7.000			
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000			
0000001	016	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000			
0000001	017	00010	WATER TEMPERATURE DEG C		13.500				
0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN		350.000				
0000001	019	00090	OXIDATION-REDUCTION POTENTIAL (EH) MIL-IVOLTS		78.000-				
0000001	020	00095	CONDUCTIVITY(EC)-LAB(CUMHQS/CM @ 25 C		995.000				
0000001	021	00400	PH PH UNITS		6.800				
0000001	022	00410	ALKALINITY, TOTAL MG/L AS CaCO3		366.000				
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		150.000				
0000001	024	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE		55.000				
0000001	025	90410			369.000				







UNIVERSITY OF ILLINOIS-URBANA



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